

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| S1    | 1    | ("5049521").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | OFF     | 2005/03/12 11:40 |
| S2    | 4391 | ((257/184,433,434,448,457,459) or (250/370.14) or (438/29)).<br>CCLS.                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | OFF     | 2005/03/12 12:03 |
| S3    | 4046 | S2 and (@ad<"20020925" or @rlad<"20020925")   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | OFF     | 2005/03/12 14:08 |
| S4    | 3196 | S3 and (chip or carrier or substrate)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | OFF     | 2005/03/12 12:08 |
| S5    | 2055 | S4 and (front or back or frontside or backside or top or bottom or (opposite near3 side)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | OFF     | 2005/03/12 12:10 |
| S6    | 1859 | S5 and (electrode or contact or electrodes or contacts)                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | OFF     | 2005/03/12 12:10 |
| S7    | 861  | S6 and (via or throughhole or (through adj hole) or trench or damascene)                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | OFF     | 2005/03/12 12:12 |
| S8    | 1271 | (250/239).CCLS.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | OFF     | 2005/03/12 14:08 |
| S9    | 819  | S8 and (@ad<"20020925" or @rlad<"20020925")   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | OFF     | 2005/03/12 14:24 |
| S10   | 808  | S9 not S7   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | OFF     | 2005/03/12 14:08 |
| S11   | 295  | S10 and (chip or substrate or carrier)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | OFF     | 2005/03/12 14:09 |
| S12   | 142  | S11 and (via or throughhole or (through adj hole) or trench or damascene)                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | OFF     | 2005/03/12 14:09 |

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|-----|---------|---|---|----|-----|------------------|
| S13 | 1025167 | S12 and electrode or contacts or electrodes or contacts   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2005/03/12 14:09 |
| S14 | 67      | S12 and (electrode or contacts or electrodes or contacts) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2005/03/12 14:23 |
| S15 | 5614    | S2 or S8  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2005/03/12 14:23 |
| S16 | 0       | S15 and (transimpedence adj amplifier adj chip)           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2005/03/12 14:24 |
| S17 | 0       | (transimpedence adj amplifier adj chip)                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2005/03/12 14:24 |
| S18 | 136     | transimpedence adj amplifier                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2005/03/12 14:24 |
| S19 | 49      | S18 and chip  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2005/03/12 14:24 |
| S20 | 48      | S19 and (@ad<"20020925" or @rlad<"20020925")              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2005/03/12 14:27 |
| S21 | 451     | (InP same InGaAs same ohmic)                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2005/03/12 14:26 |
| S22 | 411     | S21 and (@ad<"20020925" or @rlad<"20020925")              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2005/03/12 14:27 |
| S23 | 105     | S22 and (PIN or photodiode)                               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2005/03/12 14:29 |
| S24 | 4       | S23 and S7  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2005/03/12 14:28 |

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|-----|---|--|------------------------------|----|-----|------------------|
| S25 | 9 | ("4853252"   "5040868"  <br>"5047783"   "5227632"  <br>"5357103"   "5543612"  <br>"5617131"   "5929516"  <br>"6483101").PN. OR ("6686580").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/03/12 14:40 |
|-----|---|--|------------------------------|----|-----|------------------|